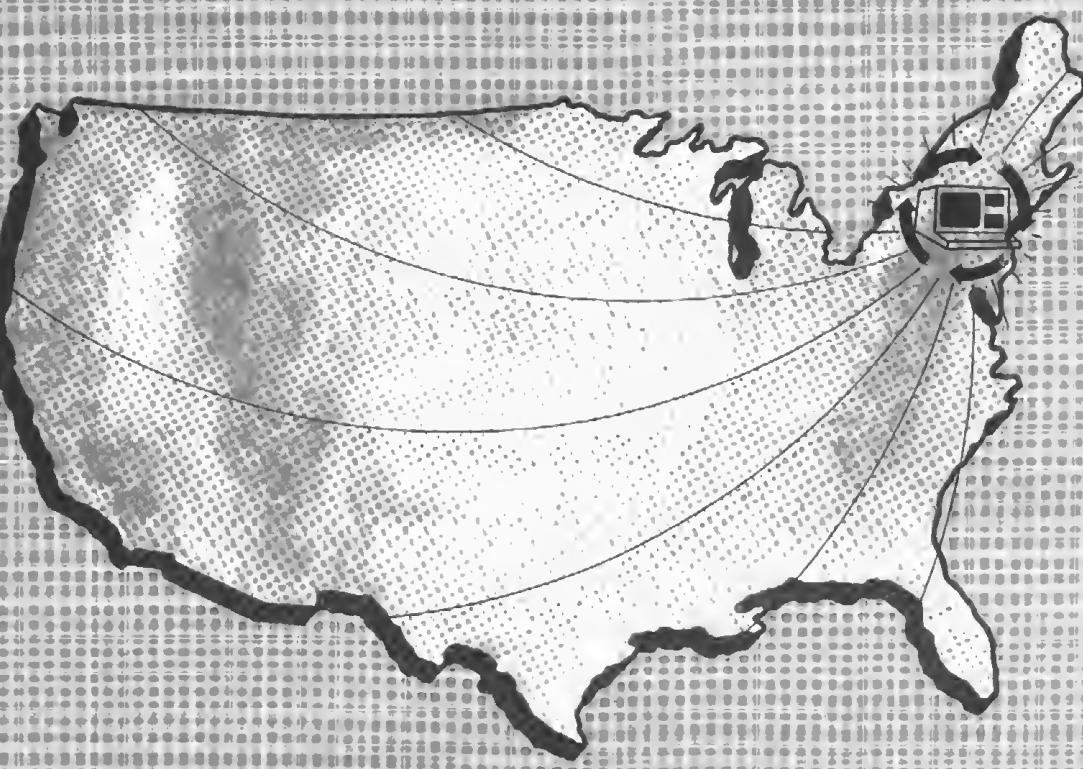


# Dow Jones Information Service User's Guide



**Radio Shack®**

CUSTOM MANUFACTURED IN THE USA BY RADIO SHACK®, A DIVISION OF TANDY CORPORATION



TERMS AND CONDITIONS OF SALE AND LICENSE OF RADIO SHACK COMPUTER EQUIPMENT AND SOFTWARE  
PURCHASED FROM A RADIO SHACK COMPANY-OWNED COMPUTER CENTER, RETAIL STORE OR FROM A  
RADIO SHACK FRANCHISEE OR DEALER AT ITS AUTHORIZED LOCATION

## LIMITED WARRANTY

### I. CUSTOMER OBLIGATIONS

- A. CUSTOMER assumes full responsibility that this Radio Shack computer hardware purchased (the "Equipment"), and any copies of Radio Shack software included with the Equipment or licensed separately (the "Software") meets the specifications, capacity, capabilities, versatility, and other requirements of CUSTOMER.
- B. CUSTOMER assumes full responsibility for the condition and effectiveness of the operating environment in which the Equipment and Software are to function, and for its installation.

### II. RADIO SHACK LIMITED WARRANTIES AND CONDITIONS OF SALE

- A. For a period of ninety (90) calendar days from the date of the Radio Shack sales document received upon purchase of the Equipment, RADIO SHACK warrants to the original CUSTOMER that the Equipment and the medium upon which the Software is stored is free from manufacturing defects. THIS WARRANTY IS ONLY APPLICABLE TO PURCHASES OF RADIO SHACK EQUIPMENT BY THE ORIGINAL CUSTOMER FROM RADIO SHACK COMPANY-OWNED COMPUTER CENTERS, RETAIL STORES AND FROM RADIO SHACK FRANCHISEES AND DEALERS AT ITS AUTHORIZED LOCATION. The warranty is void if the Equipment's case or cabinet has been opened, or if the Equipment or Software has been subjected to improper or abnormal use. If a manufacturing defect is discovered during the stated warranty period, the defective Equipment must be returned to a Radio Shack Computer Center, a Radio Shack retail store, participating Radio Shack franchisee or Radio Shack dealer for repair, along with a copy of the sales document or lease agreement. The original CUSTOMER'S sole and exclusive remedy in the event of a defect is limited to the correction of the defect by repair, replacement, or refund of the purchase price, at RADIO SHACK'S election and sole expense. RADIO SHACK has no obligation to replace or repair expendable items.
- B. RADIO SHACK makes no warranty as to the design, capability, capacity, or suitability for use of the Software, except as provided in this paragraph. Software is licensed on an "AS IS" basis, without warranty. The original CUSTOMER'S exclusive remedy, in the event of a Software manufacturing defect, is its repair or replacement within thirty (30) calendar days of the date of the Radio Shack sales document received upon license of the Software. The defective Software shall be returned to a Radio Shack Computer Center, a Radio Shack retail store, participating Radio Shack franchisee or Radio Shack dealer along with the sales document.
- C. Except as provided herein no employee, agent, franchisee, dealer or other person is authorized to give any warranties of any nature on behalf of RADIO SHACK.
- D. Except as provided herein, **RADIO SHACK MAKES NO WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**
- E. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation(s) may not apply to CUSTOMER.

### III. LIMITATION OF LIABILITY

- A. EXCEPT AS PROVIDED HEREIN, RADIO SHACK SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED OR ALLEGED TO BE CAUSED DIRECTLY OR INDIRECTLY BY "EQUIPMENT" OR "SOFTWARE" SOLO, LEASED, LICENSED OR FURNISHED BY RADIO SHACK, INCLUDING, BUT NOT LIMITED TO, ANY INTERRUPTION OF SERVICE, LOSS OF BUSINESS OR ANTICIPATORY PROFITS OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR OPERATION OF THE "EQUIPMENT" OR "SOFTWARE". IN NO EVENT SHALL RADIO SHACK BE LIABLE FOR LOSS OF PROFITS, OR ANY INDIRECT, SPECIAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF ANY BREACH OF THIS WARRANTY OR IN ANY MANNER ARISING OUT OF OR CONNECTED WITH THE SALE, LEASE, LICENSE, USE OR ANTICIPATED USE OF THE "EQUIPMENT" OR "SOFTWARE".

NOTWITHSTANDING THE ABOVE LIMITATIONS AND WARRANTIES, RADIO SHACK'S LIABILITY HEREUNDER FOR DAMAGES INCURRED BY CUSTOMER OR OTHERS SHALL NOT EXCEED THE AMOUNT PAID BY CUSTOMER FOR THE PARTICULAR "EQUIPMENT" OR "SOFTWARE" INVOLVED.

- B. RADIO SHACK shall not be liable for any damages caused by delay in delivering or furnishing Equipment and/or Software.
- C. No action arising out of any claimed breach of this Warranty or transactions under this Warranty may be brought more than two (2) years after the cause of action has accrued or more than four (4) years after the date of the Radio Shack sales document for the Equipment or Software, whichever first occurs.
- D. Some states do not allow the limitation or exclusion of incidental or consequential damages, so the above limitation(s) or exclusion(s) may not apply to CUSTOMER.

### IV. RADIO SHACK SOFTWARE LICENSE

RADIO SHACK grants to CUSTOMER a non-exclusive, paid-up license to use the RADIO SHACK Software on one computer, subject to the following provisions:

- A. Except as otherwise provided in this Software License, applicable copyright laws shall apply to the Software.
- B. Title to the medium on which the Software is recorded (cassette and/or diskette) or stored (ROM) is transferred to CUSTOMER, but not title to the Software.
- C. CUSTOMER may use Software on one host computer and access that Software through one or more terminals if the Software permits this function.
- D. CUSTOMER shall not use, make, manufacture, or reproduce copies of Software except for use on one computer and as is specifically provided in this Software License. Customer is expressly prohibited from disassembling the Software.
- E. CUSTOMER is permitted to make additional copies of the Software **only** for backup or archival purposes or if additional copies are required in the operation of one computer with the Software, but only to the extent the Software allows a backup copy to be made. However, for TRSOOS Software, CUSTOMER is permitted to make a limited number of additional copies for CUSTOMER'S own use.
- F. CUSTOMER may resell or distribute unmodified copies of the Software provided CUSTOMER has purchased one copy of the Software for each one sold or distributed. The provisions of this Software License shall also be applicable to third parties receiving copies of the Software from CUSTOMER.
- G. All copyright notices shall be retained on all copies of the Software.

### V. APPLICABILITY OF WARRANTY

- A. The terms and conditions of this Warranty are applicable as between RADIO SHACK and CUSTOMER to either a sale of the Equipment and/or Software License to CUSTOMER or to a transaction whereby RADIO SHACK sells or conveys such Equipment to a third party for lease to CUSTOMER.
- B. The limitations of liability and Warranty provisions herein shall inure to the benefit of RADIO SHACK, the author, owner and/or licensor of the Software and any manufacturer of the Equipment sold by RADIO SHACK.

### VI. STATE LAW RIGHTS

The warranties granted herein give the original CUSTOMER specific legal rights, and the original CUSTOMER may have other rights which vary from state to state.

**To be filled in by the Customer:**

Dow Jones Password: \_\_\_\_\_

**Network Telephone Number:** \_\_\_\_\_

**Alternate Network Number:** \_\_\_\_\_

## Dow Jones Frequently Used Codes

Dow Jones Information Services

#### **Operating Hours**

6 A.M. to 3 A.M. (Eastern Time) Monday-Friday

7 A.M. to 3 A.M. (Eastern Time) Weekends/Holidays

## Billing

When you use Dow Jones Information Services, you will be billed by Dow Jones only. Communication costs of the communications network or alternate networks are included as part of Dow Jones' regular rates.

# Contents

Introduction .....	2
Starting-Up .....	3
A Summary of Available Dow Jones Information .....	4
Hints And Tips .....	15
How To Get News .....	16
How To Get Market Quotes .....	17
Getting Quotes .....	17
Option Symbol Formula .....	18
Prices Included In The Quote Service .....	18
How To Get Detailed Financial Statistics (Media General) .....	20
Stock Price and Volume .....	20
Fundamental Data .....	21
Appendix A / Sample Codes .....	22
Common and Preferred Stocks and Warrants .....	22
Corporate Bonds .....	22
Mutual Funds .....	22
U.S. Treasury Bonds and Notes .....	22
Appendix B / Notes on Telenet .....	23
Appendix C / Subject Area Codes .....	24
Appendix D / Using Media General .....	26
Appendix E / Using Wall Street Week .....	31

**For further information contact:**

Dow Jones Information Services  
P.O. Box 300  
Princeton, NJ 08540  
Customer Service  
1-800-257-5114 (toll free)  
1-609-452-1511 (in New Jersey)

# Introduction

Dow Jones Information Services makes available the following information (much of which is cross-coded, making data both quick and simple to find):

- **News**, as recent as 90 seconds and as old as 90 days, from the pages of the *Wall Street Journal*, Barron's, and the Dow Jones News Service (the "Broadtape").
- **Current market quotes** on listed common and preferred stocks and warrants, corporate bonds, and options. These quotes are updated continuously as trades occur (except for the minimum 15-minute delay established by the exchanges). Nasdaq OTC stocks are updated hourly. Selected U.S. Treasury notes, bonds and mutual funds are updated daily.
- **Detailed financial statistics** (stock price, volume, and fundamental financial indicators) available for all New York and American Stock Exchange traded companies plus 800 over-the-counter traded companies. (This information is supplied by Media General Financial Services, Inc.)
- **Wall Street Week**. Transcripts of the popular PBS television program which is devoted to the latest economic developments. (Supplied by the Maryland Center for Public Broadcasting.)

## Starting-Up

When you're ready to access Dow Jones Information Services, follow these steps:

**Note:** If you have a printer and wish to use it, turn it on now, before loading the software package.

1. Load the information service software as explained in your version of the *TRS-80® Videotex User's Guide*.
2. Dial the "host" system's telephone number. (See the *Dow Jones Operating Guide and Directory of Symbols* or contact Dow Jones Customer Service for the TYMNET or TELNET number nearest to you.)
3. Once the phone connection is made and you hear the high-pitched tone, proceed as described in your modem/terminal owner's manual (direct modem or telephone interface).  
Terminal users, press any key and hang-up the telephone.  
Direct modem users, set the MODE switch to ORG and hang-up the telephone.  
Telephone interface users, be sure the MODE switch is set to O, DUPLEX switch to F, and place the telephone handset into the cradle.
4. The information service will then ask you to PLEASE TYPE YOUR TERMINAL IDENTIFIER. You should type A. (Do not press **ENTER**!)  
5. Then the service will ask you to PLEASE LOG IN. Type DOW1;; (Do not press **ENTER**!) **Note:** The second semi-colon will not be displayed on your screen.
6. When you're asked WHAT SERVICE PLEASE???, type DJNS **ENTER**.

7. The host system will then ask you to ENTER PASSWORD. Type your personal password and press **ENTER**. You will then be connected to Dow Jones Information Services.

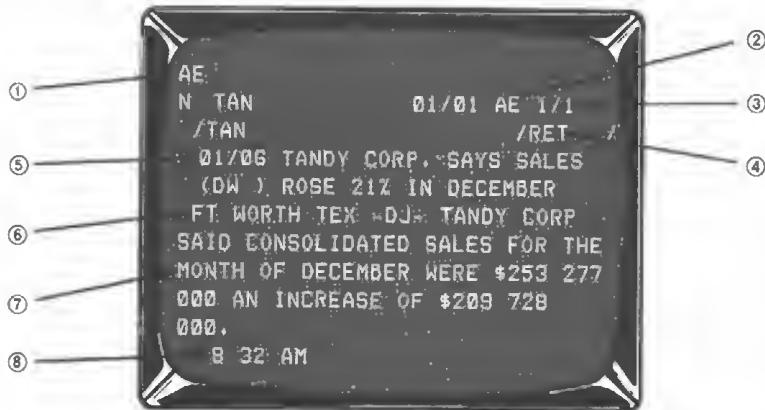
**Note:** For your protection, your password will not be displayed as you type it. If you make a mistake while typing, the network will give you another chance to type it correctly.

8. When Dow Jones asks you to ENTER QUERY, you should proceed as described later in this manual.

When you're ready to disconnect from Dow Jones, just type DISC **ENTER**. The Service will then display your sign-on and sign-off times. You'll also get a record of these times when Dow Jones sends you a monthly bill listing your usage time, followed by the prompt PLEASE LOG IN:. If you wish to remain off-line, ignore this prompt and, after a couple of minutes, OFF LINE will be displayed. To go off-line immediately, simply unplug the modem or telephone.

# A Summary of Available Dow Jones Information

If you're a new Dow Jones subscriber, we suggest you familiarize yourself with the kinds of information available by carefully reading this section.



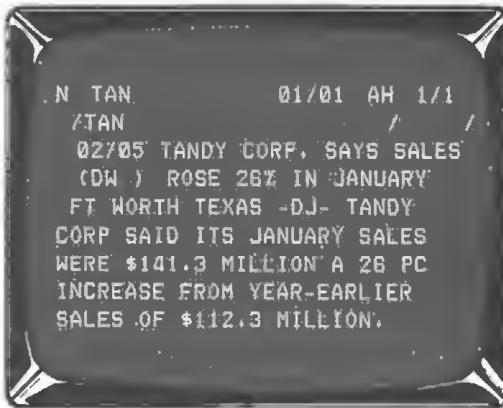
Sample News Story

- ① Story Request Code
- ② Story Identifier Code
- ③ Story Length Indicator This is page 1 of a 1 page story.
- ④ Other categories where story is filed.
- ⑤ Headline Also contains the date story was filed and the information source.
- ⑥ Story Source WJ = *Wall Street Journal*, BR = *Barron's*, DJ = *Dow Jones News Services*, DW = Both Dow Jones and the *Wall Street Journal*, NR = *Dow Jones News/Retrieved Service*)
- ⑦ Story
- ⑧ Time of day story was filed

## To Get The Latest News On A Company

Desired Information	Procedure	Example
For the most recent news on a specific company:	1. Type . (period) 2. Type a company code 3. Press <b>ENTER</b>	.TAN <b>ENTER</b>

Your screen should look like this:



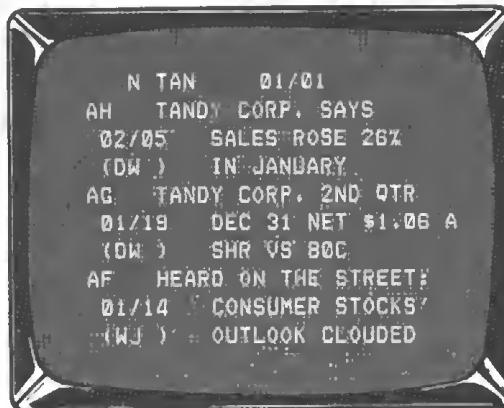
Note: We've used TAN (for Tandy Corporation) as a sample company code. A few company codes are included in this Guide. All available company codes (which are the same as the stock symbols) are in the *Operating Guide and Directory of Symbols* which is mailed to all new Dow Jones Information Services subscribers. This directory includes companies traded on the New York Stock Exchange as well as those traded on the American Stock Exchange, and stocks traded Over-The-Counter (OTC).

Incidentally, if the story you're reading isn't complete, just press **ENTER** to "turn" to the next "page."

## To Get The Headlines On A Company

Desired Information	Procedure	Example
To scan the most recent headlines on a company:	1. Type . (period) 2. Type a company code 3. Press <b>(SPACEBAR)</b> 4. Type the number 01 5. Press <b>(ENTER)</b>	.TAN 01 <b>(ENTER)</b>

Your screen should look like this:

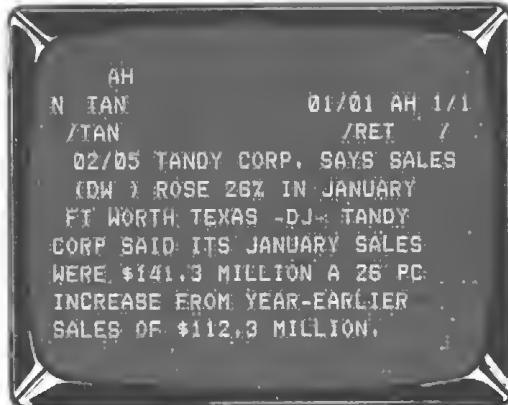


To get to the next page and more headlines, press **(ENTER)** again.

## To Get A Story That Interests You

Desired Information	Procedure	Example
To find a story you're interested in:	1. Type the two-letter code that is to the left of the headline. 2. Press <b>(ENTER)</b>	AH <b>(ENTER)</b>

Your screen  
should look  
like this:



## To Get The Current Stock Quote For A Company

Desired Information	Procedure	Example
To find the quote on a stock:	1. Type , (comma) 2. Type a company code 3. Press <b>(ENTER)</b>	,TAN <b>(ENTER)</b>

Your screen  
should look  
like this:



**Note:** Company codes for stock quotes are the same as the company codes for new stories.

## To Get Historical Stock Quotes On A Company

Desired Information	Procedure	Example
For daily quotes for the most recent month:	<ol style="list-style-type: none"> <li>1. Type : (semi-colon)</li> <li>2. Type the number of the exchange you want: 1 = New York 2 = American 3 = Pacific 4 = Midwest</li> <li>3. Type a company code.</li> <li>4. Press <b>SPACEBAR</b></li> <li>5. Type P1 for the most recent 12 days or P2 for the days 13-24.</li> <li>6. Press <b>ENTER</b></li> </ol>	:1TAN P1 <b>ENTER</b> :2TAN P2 <b>ENTER</b>
For quarterly or monthly summaries:	<ol style="list-style-type: none"> <li>1. Type : (semi-colon)</li> <li>2. Type a company code.</li> <li>3. Press <b>SPACEBAR</b></li> <li>4. Type the last two digits of the desired year.</li> <li>5. Press <b>SPACEBAR</b></li> <li>6. Type either Q or M Q = Quarterly M = Monthly</li> <li>7. Press <b>ENTER</b></li> </ol>	:TAN 80 Q <b>ENTER</b> :TAN 79 M <b>ENTER</b>

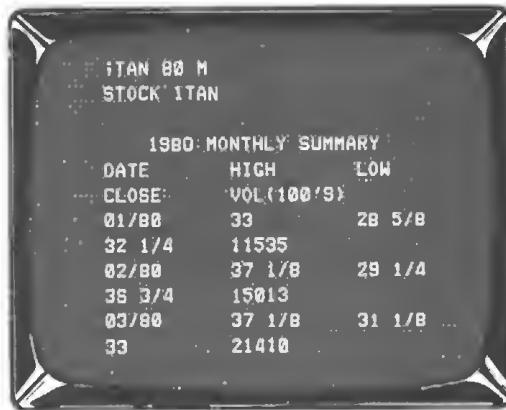
Note: OTC stocks do not require an "exchange" number. Composite quotes are not available.

After receiving quotes, you can get the most recent 12 day quotes by typing : **ENTER**.

For daily quotes, your screen should look like this:



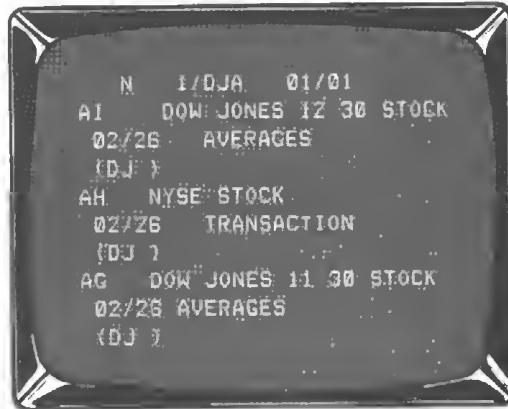
For monthly summaries,  
your screen  
should look  
like this:



## To Get Headlines In A General Subject Area

Desired Information	Procedure	Example
For subject area headlines:	1. Type . (period) 2. Type a subject code 3. Press <b>SPACEBAR</b> 4. Type 01 5. Press <b>ENTER</b>	.I/GEN 01 <b>ENTER</b> .H/ 01 <b>ENTER</b> .I/DJA 01 <b>ENTER</b> .MDEST 01 <b>ENTER</b>

Your screen  
should look  
like this:



Note: A complete list of available subject codes can be found later in this Guide.

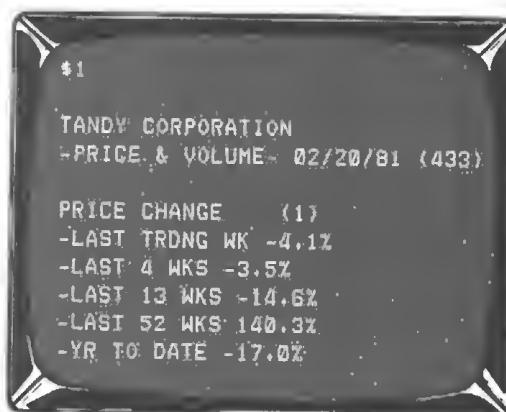
## To Get Detailed Statistics On A Company

Desired Information	Procedure	Example
For detailed stock price and volume information on a company:	1. Type \$ (dollar sign) 2. Type a company code 3. Type / (slash) 4. Type P 5. Press <b>(ENTER)</b>	\$TAN/P <b>(ENTER)</b>
For fundamental data on a company's revenues and earnings:	1. Type \$ (dollar sign) 2. Type a company code 3. Type / (slash) 4. Type F 5. Press <b>(ENTER)</b>	\$TAN/F <b>(ENTER)</b>

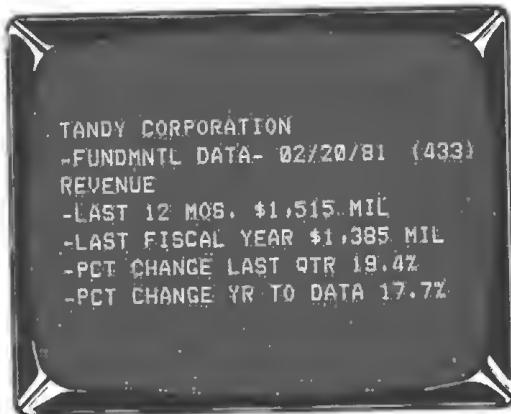
**Note:** Since this information is stored on three "pages," you can specify the page you want by typing (after you typed the above):

- \$1 **(ENTER)** (for page 1)
- \$2 **(ENTER)** (for page 2)
- \$3 **(ENTER)** (for page 3)

Your screen should look like this:



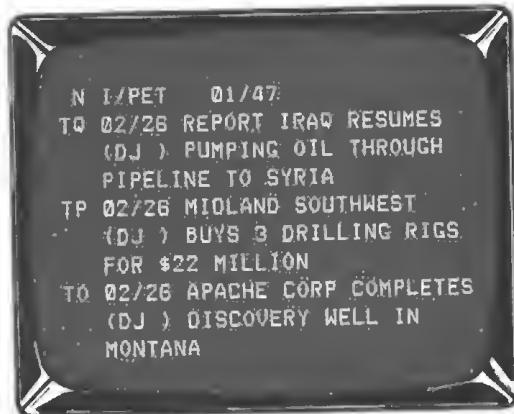
Your screen  
should look  
like this:



## To Get The Headlines On An Industry

Desired Information	Procedure	Example
For headlines on an industry (such as steel, auto, etc.):	1. Type . (period) 2. Type an industry code 3. Press <b>SPACEBAR</b> 4. Type 01 5. Press <b>ENTER</b>	.I/PET 01 <b>ENTER</b>

Your screen  
should look  
like this:



**Note:** Industry codes are listed later in this Guide.

## To Get Quotes On Bonds, Mutual Funds, or U.S. Treasury Bonds and Notes

Desired Information	Procedure	Example
For quotes on bonds:	1. Type / (slash) 2. Type a company code 3. Press <b>ENTER</b>	/DOWL <b>ENTER</b>
For quotes on mutual funds:	1. Type + (plus) 2. Type a company code 3. Press <b>ENTER</b>	+DRSPX <b>ENTER</b>
For quotes on U.S. Treasury bonds and notes:	1. Type # (number sign) 2. Type a company code 3. Press <b>ENTER</b>	#BAST <b>ENTER</b>

Note: Bond, mutual fund, and U.S. Treasury issue symbols can be found in the *Operating Guide and Directory of Symbols*.

For quotes on bonds, your screen should look like this:



For quotes on  
mutual funds,  
your screen  
should look  
like this:



For quotes on  
U.S. Treasury  
bonds and  
notes, your screen  
should look  
like this:



## Hints and Tips

- **Don't forget!** When you've obtained all the information you need and are ready to disconnect from the Service, type: DISC **(ENTER)**
- To interrupt, press and hold **(SHIFT) (?)** or, if your terminal has a **(BREAK)** key, press it.
- If you make a mistake, don't worry. Just press and hold the control key (see your Computer's *User's Guide*) and type x. This will cancel your original query. You should then re-enter the entire line. Another way (which works in most cases) is to press **(ENTER)** and re-enter the entire line. If you get the message SEE YOUR REP, please hang up and try again.
- Don't forget to press the "do-it" key (i.e., the carriage return, **(ENTER)**) since the Service won't "hear" you until you do. You should press it after typing any information or when you want to get to the next page of information.
- After you've logged-off the network, the host will tell you your sign-on and sign-off times, followed by the date. Then the host will tell you to PLEASE LOG IN again. If you wish to remain off-line, ignore this prompt and, after a couple of minutes, OFF-LINE will be displayed.

### Notes:

## How To Get News

Dow Jones Information Services news files go back 90 days. This database has special codes covering general news, economic news, the cost of money, stock market activity, company earnings and dividends, news on many industries, takeover news, commodities news, foreign news, and U.S. Government news. In addition, it has a code for each of the companies whose stock is traded on the New York Stock Exchange, the American Stock Exchange, and the OTC Nasdaq market.

If you need the news about a particular company:

1. Type , (period) (for news).
2. Type the category or company symbol (if applicable). See the *Operating Guide and Directory of Symbols* for a list.
3. Press **(SPACEBAR)**.
4. Type 01 (for page 1 of headlines).
5. Press **(ENTER)**.

For example:

.TAN 01 <b>(ENTER)</b>	(Tandy Corporation headlines)
.TAN <b>(ENTER)</b>	(Tandy Corporation latest story)
.NAB 01 <b>(ENTER)</b>	(Nabisco headlines)
.G/EXE 01 <b>(ENTER)</b>	(Executive branch of government headlines)
.H/ <b>(ENTER)</b>	(Current day "hot" news)
.I/PET 01 <b>(ENTER)</b>	(Petroleum Industry headlines)

To get a specific story behind a headline, type the two-letter code located to the left of each headline and press **(ENTER)**.

If you want to interrupt the printing of headlines so you can get a story, press and hold **(SHIFT) ?**.

To get to the next page of headlines, press **(ENTER)**.

To return to the headline list after looking at a story, type the number of the desired headline page and press **(ENTER)**. The top line of each headline page carries a notation such as 01/06. This means "The first page (01) of a total of six pages (06)." After you've entered the category, you can skip pages when searching headlines.

# How To Get Market Quotes

## Getting Quotes

To obtain a current market quote:

1. Type one of the following characters to obtain the desired database:

Character	Database
,	Stocks (common and preferred) and Warrants
/	Bonds (corporate and foreign)
-	Options
+	Mutual Funds
*	U.S. Treasury Issues

2. Type the symbol for the security you want. (See the *Operating Guide and Directory of Symbols.*)

3. To access preferred stocks, type + (plus) after the stock symbol.

To access warrants, type % (percent) after the stock symbol.

To access issued stocks, type @ (at) after the stock symbol if it is traded on the New York or American Stock Exchange. Type V after the stock symbol if it is traded OTC.

**Special Note For Common Stocks:** To access a quote from a specific stock exchange—but not the composite—first type the number of the exchange (1 = New York, 2 = American, 3 = Pacific, 4 = Midwest) and then the stock symbol. No number is needed for OTC quotes. If no number is used for companies traded on an exchange, the composite quote will be given.

Current Day Quote Request Samples		
Database	Market Quote Request	Request Format
Stocks	Tandy (Composite)	,TAN <b>(ENTER)</b>
Stocks	Tandy (NYSE)	,1TAN <b>(ENTER)</b>
Corporate Bonds	Ashland Oil 6.15% 1992	/ASHK <b>(ENTER)</b>
Mutual Funds	Capital Bond	+ACCBX <b>(ENTER)</b>
U.S. Treasury Notes & Bonds	95% Aug., 1981 Notes	#BAMB <b>(ENTER)</b>
Options	Exxon, \$55 July 1981 options	-XONGP <b>(ENTER)</b>

## Option Symbols Formula

To access the options database, type - (hyphen); then type the stock symbol. (Do not press **SPACEBAR** between hyphen and symbol.) See your newspaper for option months and strike prices. Add the one-letter month code and the one-letter strike price code. Then press **ENTER**. Strikes adjusted for stock splits may use a different primary symbol.

Month Codes		
	Call	Put
JAN	A	M
FEB	B	N
MAR	C	O
APR	D	P
MAY	E	Q
JUN	F	R
JUL	G	S
AUG	H	T
SEP	I	U
OCT	J	V
NOV	K	W
DEC	L	X

Strike (Exercise) Price Codes			
5	A	55	K
10	B	60	L
15	C	65	M
20	D	70	N
25	E	75	O
30	F	80	P
35	G	85	Q
40	H	90	R
45	I	95	S
50	J	100	T

Letters U thru Z for non-standard strikes and fractionally adjusted prices.

## Prices Included In The Quote Service

Price information is updated continuously as trades occur on the different listed exchanges. (Don't forget, however, there is the minimum 15 minute delay on all pricing information.) This price information is available for:

- Common and preferred stocks and warrants on four U.S. stock exchanges (New York, American, Pacific, and Midwest). Dow Jones Information Services subscribers can access both composite prices and individual exchange prices.

These quotes include the previous day's close and the current day opening price as well as the high/low and latest price and volume. If a stock is not yet traded, the Close column reflects its last traded price and the Volume column reflects the date of that trade.

- Corporate bonds on three exchanges (New York, American, and Pacific). The Volume figure reflects the value of the bonds traded. If it is not yet traded, the Close column reflects its last traded price and the Volume column reflects the date of the trade.
- Options from five exchanges (Chicago Board Options Exchange and the American, Pacific, Midwest, and Philadelphia Stock Exchanges). Volume reflects the number of contracts traded. If it is not yet traded, the Close column reflects the contract's last traded price and the Volume column reflects the date of that trade.

---

**Quotes are also available for:**

- The national OTC market, with bid and ask prices updated six times each day—on the hour—between 11 A.M. and 5 P.M. (Eastern Time). Volume is updated once each business day at approximately 6 P.M. (Eastern Time).
- Mutual fund sell (net asset value) and buy (markup) quotes are updated once each day at approximately 6 P.M. (Eastern Time). Before that time, only the net asset value and the date of the last trade are given.
- Selected U.S. Treasury issues are updated each day at 6 P.M. (Eastern Time) with bid, ask, and yield. The point in a quote is a device to separate the round figures from the fraction. (For instance, 99.16 is the same as  $99\frac{1}{32}$ .) Government bonds are traded in thirty-seCONDS.

# How To Get Detailed Financial Statistics

Dow Jones Information Services gives you access to detailed financial statistics for many companies. To obtain this information:

1. Type \$ (dollar sign) (for financial statistics).
2. Type the company code or industry codes.
  - For companies, use the same code you used for stock quotes and news.
  - For industries, use the special industry codes sent with the *Operating Guide and Directory of Symbols*. (There are 180 industries coded.)
3. Type / (slash).
4. Type the letter P (for Stock Price and Volume Statistics) or F (for Fundamental Data) (These are described below).
5. Press **ENTER**.

For the first page of statistics, type:

\$1 **ENTER**

For the second and third pages, type \$2 and \$3 respectively.

For example:

\$TAN/P <b>ENTER</b>	(for Tandy Corporation stock price statistics)
\$1 <b>ENTER</b>	(for page 1 of above)
\$2 <b>ENTER</b>	(for page 2 of above)
\$TAN/F <b>ENTER</b>	(for Tandy Corporation fundamental statistics)
\$433/P <b>ENTER</b>	(for electronics industry composite stock price statistics)

## Information Included in Financial Statistics

Financial statistics are updated by Media General Financial Services, Inc. on a weekly basis.

These statistics include information on earnings, dividends, price-earning ratios, and stock-price performance relative to market indicators for companies listed on the New York and American stock exchanges and on 800 selected OTC companies. These statistics also include composite information on 180 industries.

## Stock Price And Volume

Information is made available on:

- The current price compared to the price in the last trading week as well as the previous four, 13, and 52 weeks. Information is also given for the year to date.

- The price change compared to Standard and Poor's 500 Stock Index for the same period of time.
- The price range for the last year compared to the price range for the previous five years.
- Price-earnings ratios for the current year compared to the five-year high/low and average.
- The current stock price relative to common equity, revenue per share, and relative price index.
- Price volatility measured by Gain Index and Beta factor.
- The volume of shares traded in the latest week as well as liquidity ratio and the On-Balance Index. (Data includes shares, dollars, and percent of shares outstanding.)

## Fundamental Data

Detailed financial statistics also include information concerning a company's fundamental data. This includes:

- Revenue for the last year in addition to changes in revenue compared to the last quarter as well as the year-to-date.
- Earnings—for a single year; per share for the last 12 months; for the last fiscal year; percent change for last quarter; for the fiscal year to date; for the last 12 months; the five-year growth rate.
- Dividends—current amount and percent yield; five-year growth rate; pay out for the last fiscal year and the last five years, last ex-dividend date.
- Financial ratios—profit margin percent; return on common equity and total assets; revenue to assets; debt to equity; interest coverage; the current ratio.
- Shareholding—market value; shares outstanding; shares held by institutions; insider net trading; short interest ratio.
- The date the fiscal year ends.

## Appendix A / Sample Codes

Common and Preferred Stocks, and Warrants					
Security	Exchange	Current Quotes	Historical Quotes	Financial Statistics	Symbol
Exxon Corp.	NYC	,	;	\$	XON
Nabisco Inc.	NYC	,	;	\$	NAB
Seintech Corp.	AMC	,	;	\$	SMH
Frontier Airlines	AMC	,	;	\$	FA
Tandy Corp.	NYC	,	;	\$	TAN
AT&T	NYC	,	;	\$	T
Eastman Kodak	NYC	,	-	\$	EK
Anheuser Busch	OTC	,	;	\$	BUD

Corporate Bonds			
Security	Exchange	Current Quotes	Symbol
Clark Equip. Co. 9% 1999	NY	/	CKLD
Dow Chemical 4.35% 1988	NY	/	DOWL
NCR 9% 1985	NY	/	NCRE

Mutual Funds		
Fund Name	Current Quotes	Symbol
Capital Bond	+	AGCBX
Price Rowe Growth	+	PRGRX
Janus Fund Inc.	+	JANSX

U.S. Treasury Bonds and Notes			
Rate	Name	Current Quotes	Symbol
8 1/8%	June 1983 Notes	#	BAQR
4%	February 1988-93	#	BFCA

## Appendix B / Notes on Using TELENET

If you use the TELENET network to access Dow Jones Information Services, follow this start-up procedure:

1. Dial the "host" system's telephone number.
2. Once the phone connection is made and you hear the high-pitched tone, proceed as described in your modem/terminal owner's manual (direct modem or telephone interface).  
**Terminal users**, press any key and hang-up the telephone.  
**Direct modem** users, set the MODE switch to ORG and hang-up the telephone.  
**Telephone interface** users, set the MODE switch to O, DUPLEX switch to F, and place the telephone handset into the cradle.
3. When the modem is set, press **(ENTER)** twice.
4. TELENET will respond with system information and then ask you to identify your terminal by displaying the prompt **TERMINAL=**. You should press **(ENTER)**.
5. The host system will then prompt you with @ (the at symbol). You should type C, press **(SPACEBAR)**, type 60942 and press **(ENTER)**. For instance: C 60942 **(ENTER)**
6. When you're asked **WHAT SERVICE PLEASE???**, type **DJNS (ENTER)**.
7. Next, the host network will ask you to **ENTER PASSWORD**. Type your personal password and press **(ENTER)**. You will then be connected to Dow Jones Information Services.
8. When Dow Jones asks you to **ENTER QUERY**, you should proceed as described in this manual.

When you're ready to disconnect, type **DISC (ENTER)**. After you've disconnected from the network, the host will display your log-on and log-off time and the date. Then the @ will re-appear (prompting you to log-on). If you wish to remain off-line, ignore this prompt and, after a couple of minutes, **OFF LINE** will be displayed.

**Note:** Under TELENET, **(SHIFT) (?)** does not interrupt a headline or story.

Also, TELENET will only connect with Dow Jones Information Services between 6 A.M. and 6 P.M. Eastern Standard Time, Monday through Friday excluding holidays.

## Appendix C / Subject Area Codes

<b>General News</b>		<b>Foreign Area News (Cont.)</b>	
General News	I/GEN	Europe	EUROP
Hot Business News	H/	Japan	JAPAN
Headlines of the Hour	I/HOH	Far East	FREST
New York News	NYORK	Mideast	MDEST
All	A/	Africa	AFRIC
<b>Economic News</b>		<b>U.S. Government News</b>	
The Economy	I/ECO	General Government News	GOVMT
Economic Indicators	I/EMI	Executive Branch News	G/EXE
<b>Cost of Money</b>		Congressional News	G/CNG
Monetary News	I/MON	Supreme Court	G/SUP
Bond Market News	I/BON	Agriculture Department	G/AGD
<b>Stock Market Activity and Company Earnings, Dividends, and Takeover News</b>		Justice Department	G/JUS
Daily Calendar	I/CAL	Civil Aeronautics Board	G/CAB
Active Stocks	I/ACT	Defense Department	G/DEF
Stock Market	I/STK	Energy Department	G/ERG
Tender Offers, Mergers, Acquisitions	I/TNM	Internal Revenue Service	G/IRS
Bankruptcies	I/BCY	Taxes	TAXES
Block Trades	I/BLK	<b>Banking Regulatory Agencies</b>	
Buybacks	I/BBK	Federal Reserve Board	G/FED
Dow Jones Averages	I/DJA	Treasury Department	G/TRE
Barron's News	BRRNS	<b>Federal Regulatory Agencies</b>	
Earnings Reports	I/ERN	Environmental Protection Agency	G/EPA
Dividend Actions	I/DIV	Federal Communications Commission	G/FCC
Labor	LABOR	Food and Drug Administration	G/FDA
Executive Changes	WNEWS	Federal Trade Commission	G/FTC
Stock Symbol Changes	BRSYM	Interstate Commerce Commission	G/ICC
<b>Commodities News</b>		Securities and Exchange Commission	G/SEC
Commodities	I/CMD		
<b>Foreign Area News</b>			
General Foreign News	FORGN		
Canada	CANDA		
Latin America	LATAM		

<b>Industries</b>		<b>Industries (Cont.)</b>	
Accounting	I/FIN	Railways	I/TRA
Advertising	I/COM	Real Estate, Reits	I/REL
Aerospace	I/ARO	Restaurants	I/FAB
Airlines	I/AIR	Retailing	I/RET
Appliances	I/ELE	Rubber	I/RUB
Autos, Auto Parts	I/AUT	Securities Industry	I/SCR
Banks	I/BNK	Ship Lines, Builders	I/TRA
Broadcasting	I/COM	Supermarkets	I/FAB
Casino and Gambling	I/CNO	Telephone, Telegraph	I/UTI
Chemicals	I/CHM	Textiles & Apparel	I/TEX
Computers	I/OFF	Thrift Institutions	I/BNK
Construction (Also Materials)	I/CON	Tobacco	I/FAB
Cosmetics	I/FAB	Transportation (Not Airlines)	I/TRA
Electric & Electronics	I/ELE	Truck Lines	I/TRA
Farm Equipment	I/FAR	Utilities	I/UTI
Farm Products	I/CMD		
Financial	I/FIN		
Food and Beverage	I/FAB		
Food Stores	I/RET		
Hospital Supplies	I/PHA		
Household Products	I/FAB		
Industrial Equipment	I/IND		
Insurance	I/FIN		
Land Development	I/REL		
Leasing	I/FIN		
Machine Tools	I/IND		
Mining & Metals	I/MIN		
Movies	I/COM		
Mutual Funds	I/FIN		
Natural Gas & Pipelines	I/LNG		
Nuclear-Power, Fuel, etc.	I/NUK		
Office Equipment	I/OFF		
Paper	I/PUL		
Packaging	I/PUL		
Petrochemicals	I/CHM		
Petroleum	I/PET		
Pharmaceuticals	I/PHA		
Plastics	I/CHM		
Publishing	I/COM		
Pulp & Paper	I/PUL		

# Appendix D / Using Media General

## Stocks by Industry—Price and Volume

Price Change				Change Vs. S&P 500						Price Range					
Last				Year to Date	Last				Year to Date	Last Close	52-Week		5-Year		
Trading Week	4 Weeks	13 Weeks	52 Weeks		Trading Week	4 Weeks	13 Weeks	52 Weeks			High	Low	High	Low	
%	%	%	%	%	%	%	%	%	%	\$	\$	\$	\$	\$	\$

Relative Price				Price Action				Volume					
P/E Ratio		Price to		Rel- ative Price Index	Betas		This Week		% Shrs. Out- standing	Liq- uidity Ratio	On Bal- ance Index		
Cur- rent	5-Year Avg.	Com- mon Equity	Rev. Per Share		Gain Index	Up	Down	Shares	Dollars				
-	-	-	%	%	%	-	-	(000)	\$000	%	\$000	-	

### Relative Price

**P/E Ratio—Current**—Based on the latest closing price (bid) and the trailing 12 months' earnings per share.

In an effort to eliminate distortions, any calculations involving P/E ratios to determine industry averages ignore those companies with P/E's greater than 50. Any stock with a current or 5-year average P/E greater than 50 will show an NC in that field and in the Price Gain Index.

**P/E Ratio—5-Year Average High (Low)**—Based on the high (low) price in each of the previous five years and the fiscal year earnings for the five years.

**Price to Common Stock Equity**—The latest closing price (bid) per share divided by the current estimated common equity per share (approximated by adding the latest fiscal common equity per share to the current interim EPS and subtracting interim indicated dividends paid).

**Price to Revenue Per Share**—The latest closing price (bid) per share divided by the trailing 12 months' revenue per share.

**Relative Price Index**—Calculated on the following formula:

Relative Price Index =

$$\frac{300 \text{ (latest closing price)}}{a \text{ (Estimated Common Equity/Share)} + b \text{ (Latest 12 Mos. EPS)} + c \text{ (Ind. Div. Rate)}}$$

### Price and Volume

Where a = average Price/Equity ratio of stocks on data base;

b = average Price/Earnings ratio of stocks on data base;

c = average Price/Dividend ratio of stocks on data base.

## Price Movement

**Price Gain Index**—The most current forward estimate of earnings per share, multiplied by the company's 5-year average P/E ratio, and then divided by current price. The index thus shows the ratio of potential to current price, if the EPS estimate is correct, and the historic P/E ratio is achieved. If there is no footnote by the figure, the index is derived from an estimate of E.P.S. for the fiscal year ending in the current calendar year. When another estimate is used, footnotes are used as follows, with a, b, and x referring to fiscal years ending with calendar year dates as indicated.

a = Latest 12 months E.P.S.

b = Last Year's estimate.

x = Next Year's estimate.

When the Price Gain Index shows "NE," there is no E.P.S. estimate and a negative 12 month E.P.S.

**Beta Co-Efficients**—This co-efficient is a measure of how much a given stock tends to change in price relative to the market as a whole. A beta co-efficient of 1 would mean that the market and that given stock tend to move the same. A 5% move in the market, theoretically, should produce a 5% move in the stock. A co-efficient of 2 suggests that the stock will tend to fluctuate twice as much as the market. If the market moves up 5%, then the stock would be expected to move up by 10%. A co-efficient of 0.5 indicates that the given stock will move one-half as much as the market, either up or down.

IndustriScope betas are calculated on the basis of up markets and down markets.

**Up Market**—The betas for up markets are calculated on the basis of the latest eight upward moves of 5% or more in The Media General Composite Market Index. At the eighth point, once a 5% swing has been attained, the beta is recalculated at a new moving high point as the market move continues, until a 5% reversal has occurred. Where there is only a partial record of a given stock's price, a minimum of four swings of 5% or more is required for the beta calculation.

**Down Market**—Same as the above, except the betas are calculated on the basis of 5% down swings in the Composite.

The calculation itself is an unweighted average of the stock's percentage change during a "swing period" divided by the market's percentage change during a "swing period." The co-efficient is noted by an asterisk where the beta is at least as large as its probable error (i.e., .6745 times the standard error of its mean).

## Volume

**Shares**—The stock's reported total volume, for the last full trading week of the month.

**Dollars**—The above volume figure times the latest closing price (bid).

**% of Shares Outstanding**—The latest weekly volume as a percentage of the company's latest reported shares outstanding.

**Liquidity Ratio**—A measure of how much dollar volume was required, during some recent time period, to move a stock's price up or down by one percentage point.

The ratio is calculated by accumulating the daily percentage changes of each issue for each trading day of the month, whether they are plus or minus, and then dividing this total percentage figure into total dollar volume for the month.

**On-Balance Index**—Relates the up market volume of the stock during the past four weeks to its change in price, through the following equation:

$$\text{Index} = (200) \frac{(S_1) - (P_1) - (V_1)}{(S_0) - (P_0) - (V_2)}$$

Where:

$S_1$  = Average Daily Shares Traded in Latest Four Weeks

$S_0$  = Average Daily Shares Traded in Prior Four Weeks

$P_1$  = Stock Price End of Latest Four Weeks

$P_0$  = Stock Price End of Prior Four Weeks

$V_1$  = Average Daily Shares Traded for Day in which the Stock Price was Up in Latest Four Weeks

$V_2$  = Total Average Daily Shares Traded During Latest Four Weeks

As can be seen, this index will vary upward based on whether upward price moves are accompanied by high and increasing volume. These moves, of course, are regarded by many as a favorable sign.

## Stocks by Industry—Fundamental Data

Revenue			Earnings								Dividends					
Last 12 Mos.	Pct. Change		Last 12 Mos.	Per Share						Current Rate	5-Year Growth Rate	Payout		Last X-Dvd Date		
	Last Ctr.	Year to Date		Last 12 Mos.	Last Fiscal Year	Pct. Change	FY	Last 12 Mos.	Amt.			Last FY	5 Yrs.			
\$Mil	%	%	\$Mil	\$	\$	%	%	%	%	\$	%	%	%	%	%	-
Ratios								Shareholdings								
Pro- fit Margin	Return on Com- mon Equity	Total Assets	Rev- enue to Assets	Debt to Eq- uity	Int- erest Cov- erage	Curr- ent Ratio	Market Value	Latest Shares Out- standing	Held by Banks- Funds	Insider Net Trad- ing	Short- Int- erest Ratio	Fiscal Year Ends	Days	Mo.		
%	%	%	%	%	-	-	\$Mil	000	000	000	Days	Mo.				

## **Revenue and Earnings**

It should be noted that 12-month figures are trailing ones, calculated from figures shown in the latest interim reports and latest fiscal year reports, when appropriate. Fiscal figures are as reported by the company. Interim figures are based on cumulative data. All earnings per share figures are fully diluted ones and calculations based on them reflect such dilution. The footnote under Earnings Last 12 Mos. governs all revenue and earnings figures: q meaning first quarter; s, first six months; n, first nine months; and f, fiscal year.

**5-Year Growth Rate** — The five-year growth in fully diluted earnings per share arrived at through the least squares method, brought up to date through each interim by time-weighting the sixth point, and with appropriate adjustments for negative earnings years.

## **Dividends**

Dividends are the latest indicated rate, and the yield is based on that amount and the latest close.

**5-Year Growth Rate** — The figure is arrived at by the least squares method, using dividends actually paid for the first five years and the indicated rate for the sixth point.

## **Ratios**

**Profit Margin** — The profit margin of the company based on latest 12 months' revenue and earnings.

**Return on Common Equity** — Based on the latest 12 months' earnings per common share and an estimate of common equity per share during interim periods. In fiscal periods, the equity is from the latest balance sheet.

**Return on Total Assets** — Based on the latest 12 months' total earnings and the total assets as reported in the company's latest fiscal year balance sheet.

**Debt to Equity** — The total long-term debt of the company as a percentage of the total common equity of the company, both from the latest annual balance sheet.

**Interest Coverage** — Profit before taxes plus interest, divided by interest, taken from the latest annual income statement.

## **Shareholdings**

**Market Value** — Latest reported shares outstanding times latest closing price per share of the common stock.

**Latest Shares Outstanding** — Latest reported shares outstanding, adjusted for any subsequent stock splits or dividends.

**Held by Banks-Funds** — The single figure here represents shares held by all federally chartered banks with equity assets exceeding \$75 million and all registered investment companies with assets exceeding \$7 million. Shares held are adjusted for any stock splits or stock dividends that occur subsequent to the quarterly reporting date of the institutions covered. The data are furnished by Computer Directions Advisers, Inc.

**Insider Net Trading** — Net change in insider holdings — purchases vs. sales — based on the latest SEC report in thousands of shares. 0 means there were no transactions or transactions netted out to 0; +0 means transactions netted to purchases of fewer than 500 shares, and -0 means transactions netted to sales of fewer than 500 shares.

The most recent monthly period for insider transactions is October 13, 1980 to November 10, 1980.

**Short Interest Ratio** — Short interest for the latest month reported, divided by average daily volume for the month corresponding to the report. The figure shows the number of days it would take to cover the short interest if the trading rate continued at the rate of the month covered by the report.

Short interest for the current issue is for the period November 14, 1980, through December 15, 1980.

## Footnotes

NA — Item not applicable to this stock.

NE — Negative earnings invalidate calculation.

NC — Data required for calculation not available.

q — Based on first quarter information.

s — Based on second quarter information.

n — Based on third quarter information.

f — Based on fiscal year information.

\* — When applied to 12-month earnings, an asterisk indicates an actual amount for an interim period, other than a quarterly multiple, resulting from a fiscal year change.

\* — As applies to beta figures, an asterisk denotes a coefficient at least as large as its probable error (i.e., .6745 times the standard error of its mean).

G — Value calculated greater than allowed range.

L — Value calculated less than allowed range.

a — When used with the price gain index, it means the index is derived using the latest 12 months' E.P.S. estimate.

a — Under current dividend yield, an 'a' indicates a stock dividend.

b — Price gain index derived by using last year's fiscal E.P.S. estimate.

b — Indicates cash plus stock dividend when applied to dividend yield column.

x — Price gain index calculated using next year's fiscal E.P.S. estimate.

Z — Interest coverage greater than 99.9 times.

X — No interest.

## Appendix E / Using *Wall Street Week*

Dow Jones Information Services also provides access to transcripts of *Wall Street Week*, a weekly Public Broadcasting Service program hosted by Louis Rukeyser and devoted to economic developments.

Transcripts of the program are made available to you through Dow Jones (by the Maryland Center for Public Broadcasting) on the Thursday following a specific broadcast. Transcripts of the three previous programs are also available through the information service.

To use *Wall Street Week*, follow these steps:

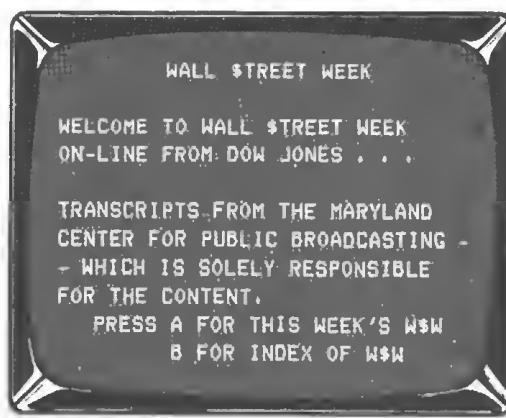
1. First start up Dow Jones Information Services as described earlier in this manual.

2. When Dow Jones asks you to ENTER QUERY, type:

" **(ENTER)**

3. Your screen will then display:

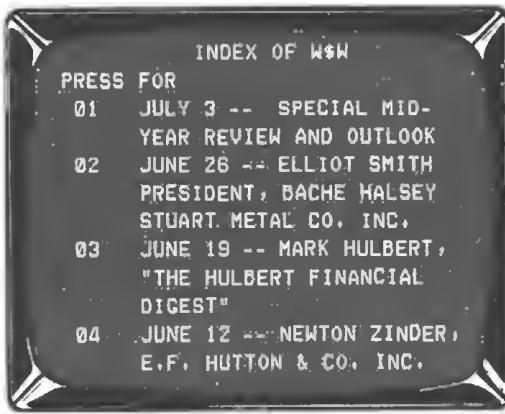
Your screen  
should look  
like this:



4. If you want the most recent *Wall Street Week* transcript, type A **(ENTER)**.

If you want to see what the previous three transcripts are about, type B **(ENTER)**. Dow Jones will then display the available choices preceded by a number. For instance:

Your screen  
should look  
like this:



If you wanted to examine the June 19th transcript, for example, just type 03 **(ENTER)**; for the July 3rd transcript, type 01 **(ENTER)** etc.

To return to Dow Jones from *Wall Street Week*, press **(SHIFT) (?)**, then type a Dow Jones access code. Note: **ENTER QUERY** will not be displayed on the screen after you press the key-combination of **(SHIFT) (?)**; scrolling will cease, however, and you can type an access code such as , TAN **(ENTER)**

To disconnect from the information service altogether, press the key-combination of **(SHIFT) (?)**, then type **DISC (ENTER)**.

## Notes:

**RADIO SHACK, A DIVISION OF TANDY CORPORATION**

**U.S.A.: FORT WORTH, TEXAS 76102  
CANADA: BARRIE, ONTARIO L4M 4W5**

**TANDY CORPORATION**

**AUSTRALIA**

91 KURRAJONG ROAD  
MOUNT DRAUITT, N.S.W. 2770

**BELGIUM**

PARC INDUSTRIEL DE NANINNE  
5140 NANINNE

**U. K.**

BILSTON ROAD WEDNESBURY  
WEST MIDLANDS WS10 7JN

